BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 1900000.00

Name of Work: Detailed Estimate for the work of Providing Asphalting to 26th A Cross western side kondappa layout in ward No-02 of yelahanka Sub division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 138/ Item No. 19.1/ PWD SR 2014-15	cum							
	levelling and lowering		2	240.00	2.50	0.15	180.00		
	berm cutting		2	150.00	2.00	0.30	180.00		
	desilting		1	150.00	0.60	0.40	36.00		
							396.00	**75.60**	**29938.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2014-15	cum							
	widening portion		2	240.00	2.50	0.20	240.00		
	dippression filling		8	3.00	2.50	0.15	9.00		
			6	3.00	2.50	0.15	6.75		
			9	2.50	2.50	0.15	8.44		
	for culvert		2	6.00	1.50	1.00	18.00		
							282.19	**176.04**	**49676.00**
	Basic Rate	163.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	13.04							
	Total	**176.04**							
3	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2014-15)	cum							
			Vide Item No. 1+2				678.19	79.10	53644.00
	Basic Rate for loading and unloading	63.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2 X 4	10.24							
		73.24							
	Area Weightage @ 8%	5.86							
	Total	**79.10**							
4	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2014-15	Cum							
	culvert		2	6.00	1.50	0.15	2.70		
							2.70	**4847.04**	**13087.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, **retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc,** including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	for culvert		2	6.00	1.20	0.30	4.32		
	side walls		4	6.00	0.30	0.90	6.48		
	deck		2	6.00	1.20	0.30	4.32		
							15.12	**6065.28**	**91707.00**
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
6	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2014-15	Quintal							
	90 kg/cum for culvert		0.900	**15.12**			13.61		
							13.61	**7254.80**	**98723.00**
	Basic Rate	7254.80							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	sqm							
	side walls	2x4	8	6.00		0.90	43.20		
	deck	2x1	2	6.00	1.20		14.40		
							57.60	**292.68**	**16858.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							
8	RCC Precast covering slab for drain (10cm thick)	sqm							
	for existing drain		1	60.00	0.90		54.00		
			1	93.00	0.90		83.70		
							137.70	**1498.00**	**206275.00**
	Rate Approved by BBMP	**1498.00**							
9	KSRRB M400-6.1: construction of granular sub case providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading In uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. plant Mix methold. gradding I / Item No. 20.4 , No. 151, i SR 2014-15	cum							
	widening portion		2	120.00	2.50	0.15	90.00		
							90.00	**1391.04**	**125194.00**
	Basic Rate	1288.00							
	Area Weightage @ 8%	103.04							
	Total	**1391.04**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154, item No 20.18 SR 2014-15	cum							
	widening portion		2	240.00	2.50	0.20	240.00		
	dippression filling		8	3.00	2.50	0.15	9.00		
			6	3.00	2.50	0.15	6.75		
			9	2.50	2.50	0.15	8.44		
							249.00	**1438.56**	**358201.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
	KSRRB M500-6: providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, No. 157 item No 21.6 SR 2014-15	sqm							
	widening portion		2	340.00	2.50		1700.00		
	dippression filling		8	3.00	2.50		60.00		
			6	3.00	2.50		45.00		
			9	2.50	2.50		56.25		
							1861.25	**35.21**	**65531.00**
	Basic Rate	32.60							
	Area Weightage @ 8%	2.61							
	Total	**35.21**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRRB 500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack cost with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications, MORTH chapter 5, using 40/60 TPH capacity HMP with Mechanical Paver Gr -I (80 mm to 100mm) with 3.1% VG-30 Bitumen No. 158/ Item No. 21.11.5/ PWD SR 2014-15	cum							
	for camber correction		1	240.00	4.00	0.050	48.00		
							48.00	**6624.72**	**317987.00**
	Basic Rate	6134.00							
	Area Weightage @ 8%	490.72							
	Total	**6624.72**							
13	KSRRB 500-7: providing and applying tack coatusing 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications, MORTH chapter 5, No. 157/ Item No. 21.7/ SR 2014-15	sqm							
			1	240.00	6.50		1560.00		
	Basic Rate	17.35							
	Area Weightage @ 8%	1.39					**1560.00**	**18.74**	**29231.00**
	Total	**18.74**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRRB M500-18: providing and laying Semidence bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 508 using 40-60 TPH capacity HMP with mechanical paver grading II (25-30mm) with 5% CRMB -55 grade, No. 160/ Item No. 21.21.6 SR 2014-15	cum							
		9023.00	1	240.00	6.50	0.025	39.00	9744.84	
	Basic Rate	10066.00					39.00	10871.28	423980.00
	Area Weightage @ 8%	805.28	721.84						38049
	Total	10871.28	9744.84						
15	1% of Quality control charges								19000.00
16	Miscellaneous charges								968.00
								Total	1900000.00

(Rupees Ninteen Lakhs Only)

Administrative Sanction for Rs. 19.00 Lac
Nineteen Lakh only
is accorded under head P.1771 2014-15
Registered as CE No. Subject to conditions contained in enclosed memo No. CE/Ye/41/14-15 Dt. 27-10-14
AEJE TA CE(YNK)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

TECHNICALLY SANCTIONED FOR Rs. 19.00 Lac
Rupees Nineteen Lakh only
Under P.1771-2014-15
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo EE ( ) No. /99/
Dt. CE/Ye/TS/14-15 Estimate Sanctioned
Dated 28-10-14 Rs. 19.00 Lac
Executive Engineer